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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/681,219

10/09/2003

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EXAMINER

SHIH, HAOSHIAN

ART UNIT

PAPER NUMBER

2173

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

02/12/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/681,219	SUH, JUNG-SOO	
	Examiner	Art Unit	
	Haoshian Shih	2173	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1- 8 are pending in this application and have been examined.

Specification

2. The disclosure is objected to because of the following informalities: [0025], line 1 recites "As shown in FIG. [3]...", the examiner will interpret "FIG. [3]" as "FIG. 3"
Appropriate correction is required.

Claim Objections

3. Claim 1 objected to because of the following informalities: line 2 recites "outside signalssaid..." The examiner will interpret "signalssaid" as "signals said".
Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-6 and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Greer et al. (Greer, US 6,993,722 B1).

6. As to **independent** claim 1, Greer discloses a method of controlling key input in a multifunctional product capable of receiving outside signals said multifunctional product having a key input unit (fig.6; "remote control"), a monitor, and a main unit (col.1, lines 15-24; col.7, lines 21-24) the method comprising the steps of:

(a) sensing commands input via the key input unit (col.4, lines 35-38; "remote control" issues commands to drive the multifunctional product);

(b) determining an output mode of the monitor (col.3, lines 51-58; output mode is determined to produce best displaying result); and

(c) processing an input command by the main unit according to the output mode of the monitor by communicating with the monitor after sensing the command input from the key input unit (col.4, lines 39-45; the key input unit (fig.6 "remote control") have the ability to map the input commands of the main unit that is actively being displayed).

7. As to claim 2, Greer discloses the method of claim 1, wherein the step (c) comprises, if the output mode of the monitor is not a PC mode, canceling input commands (fig.1d, "32", fig.1e, "42", fig.1g, "62"; col.11, lines 65 – col.12, lines 15; col.7, lines 30-34; The input operation is halted, paused, stopped or disconnected from the pervious main device when the output mode is of the current main device).

Art Unit: 2173

8. As to claim 3, Greer discloses the method of claim 1, wherein the step (c) comprises, if the output mode of the monitor is a PC mode, properly executing input commands (when the output mode is a PC mode (fig.1g, "60"), other modes (fig.1g "62") are suspended, and the input commands from the PC are properly executed (fig.1g, "63")).

9. As to claim 4, Greer discloses displaying a current mode indicator according to the output mode of the monitor, in the monitor (col.10, lines 9-10).

10. As to claim 5, Greer discloses displaying current mode indicator according to the output mode of the monitor, in the monitor (col.10, lines 9-10).

11. As to claim 6, Greer discloses communication between the monitor and the main unit is performed by at least one of serial and parallel communication (col.10, lines 46; "universal serial bus for communicating").

12. As to claim 8, Greer discloses the multifunctional product is one of a computer and a TV signal receiving apparatus (fig.2b, "TV", "PC"; col.5, lines 44-46).

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

14. **Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Greer in view of Lambrecht et al. (Lambrecht, US 5,754,801).**

15. As to claim 7, Greer does not the serial communication between the monitor and the computer main unit (fig.2a, "BUS 95"; lines 44-53). Greer does not specifically disclose the communication is performed by an I2C bus/protocol system.

In the same field of endeavor, Lambrecht discloses a serial communication performed by an I2C bus (col.13, lines 34-36).

It would have been obvious to one of ordinary skill in the art, having the teaching of Greer and Lambrecht before him at the time the invention was made, to modify the communication bus taught by Greer to include an I2C bus taught by Lambrecht with the motivation being to provide more communication interface options for the user.

Conclusion

Art Unit: 2173


16. The prior art made of record on form PTO-892 and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 C.F.R. 1.111(c) to consider these references fully when responding to this action. The documents cited therein teach display mode switching and access control for different input modes.

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Haoshian Shih whose telephone number is (571) 270-1257. The examiner can normally be reached on m-f 0730-1700.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on (571) 272-4048. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HSS


Kieu D. Vu
Primary Examiner